

10/664,544

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NEWS 8 JAN 17 IPC 8 in the WPI family of databases including WPIFV
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NEWS 14 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 15 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 16 FEB 28 MEDLINE/LMEDLINE reload improves functionality
NEWS 17 FEB 28 TOXCENTER reloaded with enhancements
NEWS 18 FEB 28 REGISTRY/ZREGISTRY enhanced with more experimental spectral
property data
NEWS 19 MAR 01 INSPEC reloaded and enhanced
NEWS 20 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 21 MAR 08 X.25 communication option no longer available after June 2006

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
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FILE LAST UPDATED: 20 Mar 2006 (20060320/ED)

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=> s catalyst

716742 CATALYST

719907 CATALYSTS

L1 919555 CATALYST

(CATALYST OR CATALYSTS)

=> s l1 and palladium

155826 PALLADIUM

37 PALLADIUMS

155829 PALLADIUM

(PALLADIUM OR PALLADIUMS)

L2 59588 L1 AND PALLADIUM

=> s l2 and support

441449 SUPPORT

123526 SUPPORTS

524526 SUPPORT

(SUPPORT OR SUPPORTS)

L3 9944 L2 AND SUPPORT

=> s l3 and metal

1633444 METAL

826281 METALS

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1981813 METAL
(METAL OR METALS)
L4 5457 L3 AND METAL

=> s l4 and hydrogenat?
269194 HYDROGENAT?
L5 1387 L4 AND HYDROGENAT?

=> s l4 and hydrogenation
171094 HYDROGENATION
2221 HYDROGENATIONS
171320 HYDROGENATION
(HYDROGENATION OR HYDROGENATIONS)
L6 1367 L4 AND HYDROGENATION

=> s l5 and element
688619 ELEMENT
631620 ELEMENTS
1124975 ELEMENT
(ELEMENT OR ELEMENTS)
L7 203 L5 AND ELEMENT

=> s l7 and periodic table
90938 PERIODIC
7 PERIODICS
90941 PERIODIC
(PERIODIC OR PERIODICS)
70590 TABLE
39014 TABLES
106062 TABLE
(TABLE OR TABLES)
7559 PERIODIC TABLE
(PERIODIC(W) TABLE)
L8 9 L7 AND PERIODIC TABLE

=> s l8 ibib hitstr abs 1-9
MISSING OPERATOR L8 IBIB
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> d l8 ibib hitstr abs 1-9

L8 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1345973 CAPLUS
DOCUMENT NUMBER: 144:87954
TITLE: Processes for the preparation of higher molecular
weight saturated ketones
INVENTOR(S): Barnicki, Scott Donald; Mccusker-Orth, Jennifer Ellen;
Knight, Joseph Franklin; Miller, Jerry Lynn
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 14 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2005288533 A1 20051229 US 2004-877339 20040625
 EP 1616850 A1 20060118 EP 2005-13578 20050623
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,
 BA, HR, IS, YU

PRIORITY APPLN. INFO.: US 2004-877339 A 20040625
 OTHER SOURCE(S): MARPAT 144:87954

AB Continuous single-step processes for producing higher mol. weight ketones are disclosed that involve a liquid-phase crossed condensation of an aldehyde with a ketone in the presence of a **hydrogenation catalyst** and a small amount of a **catalyst** comprising a concentrated hydroxide or alkoxide of an alkali-metal (from group 1 or group IA of the **periodic table of the elements**) or alkaline earth **metal** (from group 2, or group IIA **elements**), wherein the amount of water provided to the reaction mixture, or reaction zone, is relatively low, with respect to the total initial weight of the reaction mixture. The reaction may be carried out in the absence of solubilizing agents or phase transfer agents. The product mixture is largely free of byproducts resulting from further condensation reactions of the desired ketone product or intermediates, and free of the self-condensation products of the reactant aldehyde, that are afterward difficult to remove from the reaction mixture. Thus, in a continuous mode of operation utilizing a 1 L autoclave, with 500 mL of working volume, 20 g 1% Pd/C **catalyst** (Engelhard CG-31) was loaded into the autoclave, followed by pumping 50 weight% NaOH solution at 0.065 mL/min. and a mixture of acetone and n-butyraldehyde (10:1 molar ratio) at 49.93 mL/min. into the autoclave with a residence time of approx. 10 min. The system was pressurized with H at 300 psig and heated to 105° and allowed to reach steady state operation and run for an addnl. 3 h at steady state before sampling to give a product composition containing acetone 57.33, n-butyraldehyde 0.36, Me iso-Bu ketone 3.99, Me amyl ketone 24.96, 3-hepten-2-one 0.55, 2-ethylhexaldehyde 0.00, and high and low boilers 1.55% with 97.95% n-butyraldehyde conversion, 88.43% selectivity for Me amyl ketone, and space time yield of 39.0 lb/ft³-h.

L8 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:29249 CAPLUS

DOCUMENT NUMBER: 142:77310

TITLE: **Catalyst** and process for the preparation of middle distillates and lube bases starting from hydrocarbon feedstocks

INVENTOR(S): Calemma, Vincenzo; Flego, Cristina; Carluccio, Luciano Cosimo; Parker, Wallace; Giardino, Roberto; Faraci, Giovanni

PATENT ASSIGNEE(S): ENI S.p.A., Italy; Enitecnologie S.p.A.

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005002726	A1	20050113	WO 2004-EP6933	20040625
WO 2005002726	C1	20050506		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,			

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG

PRIORITY APPLN. INFO.:

IT 2003-MI1362

A 20030703

AB A solid **catalyst** for hydrotreating processes of hydrocarbons, comprising: (A) a **support** of an acidic nature consisting of a catalytically active porous solid, including silicon, aluminum, phosphorus and oxygen bonded to one another in such a way as to form a mixed amorphous solid characterized by an Si/Al atomic ratio of between 15 and 250, a P/Al ratio of at least 0.1, but lower than 5, a total pore volume ranging from 0.5 to 2.0 mL/g, with an average pore diameter ranging from 3 nm to 40 nm, and a sp. surface area ranging from 200 to 1000 M²/g; (B) at least one **metal** with a hydro-dehydrogenating activity selected from groups 6 to 10 of the **periodic table of elements**, dispersed on said **support** (A) in an amount of between 0.05 and 5% by weight with respect to the total weight of the **catalyst**. Said **catalyst** is advantageously used in hydrocracking processes of hydrocarbon mixts., for obtaining fuels and lubricating bases.

REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:740039 CAPLUS

DOCUMENT NUMBER: 141:243970

TITLE: **Catalysts** for the chemoselective
hydrogenation of alkynes and alkadienes into
 alkenes

INVENTOR(S): Molinier, Michel; Ou, John Di-yi; Risch, Michael A.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 8 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004176651	A1	20040909	US 2003-379495	20030304
WO 2004078888	A1	20040916	WO 2004-US6662	20040304
W:	AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.:

US 2003-379495

A 20030304

AB **Catalysts** have been discovered that are useful in

hydrogenation reactions, and particularly for the chemoselective hydrogenation of acetylene and/or methylacetylene and/or propadiene in light olefin-rich feedstreams into the corresponding alkenes. These catalysts can selectively hydrogenate acetylene with less selectivity to making oligomers (green oil) as compared with existing com. catalysts, particularly palladium catalysts. These catalysts are non-palladium catalysts, and have three different constituents that are metal or metal-based components. The metal of the first constituent may be nickel or platinum, the metal of the second constituent may be from Groups 1-10, and the metal of the third constituent may be from Groups 11-12, where the Groups are of the Periodic Table of Elements (new IUPAC notation).

L8 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:609495 CAPLUS

DOCUMENT NUMBER: 139:135872

TITLE: New porous silicate materials and their uses as catalytic systems for diesel improvement

INVENTOR(S): Roziere, Jacques; Jones, Deborah; Jacquin, Melanie; Jimenez-Lopez, Antonio; Rodriguez-Castellon, Enrique; Maireles-Torres, Pedro; Trejo-Menayo, Jose-Manuel; Vaccari, Angelo; Lenarda, Maurizio; Busca, Guido

PATENT ASSIGNEE(S): Centre National de la Recherche Scientifique CNRS, Fr.; Universite De Montpellier II; Universidad Malaga; Repsol Petroleo SA; Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (INSTM)

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1332795	A1	20030806	EP 2002-290241	20020201
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2003064031	A2	20030807	WO 2003-IB318	20030131
WO 2003064031	A3	20040617		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1485201	A2	20041215	EP 2003-702824	20030131
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005181930	A1	20050818	US 2003-503381	20030131
PRIORITY APPLN. INFO.: EP 2002-290241 A 20020201				
WO 2003-IB318 W 20030131				

AB Multifunctional Si-based porous catalytic system comprises ≥ 1 porous catalytic **support** structurally comprising SiO₂ and ≥ 1 other **metal** or nonmetal oxide chosen from Al, Zr, and B, the catalytic **support** being synthesized together with ≥ 1 surface active agents, and ≥ 1 or more **catalyst** chosen from among metallic **elements** of columns 8, 9 and 10 of the **periodic table** of the **elements**. The catalytic systems are useful in **hydrogenation** and/or decyclization reactions of (poly)aromatic compds., especially for improving the quality of diesel fuels and increasing their cetane number

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:222036 CAPLUS

DOCUMENT NUMBER: 134:224909

TITLE: **Catalyst** based on a noble Group VIII **metal** containing silicon and possibly boron, and its use in hydrotreating hydrocarbon-containing feeds

INVENTOR(S): Kasztelan, Slavik; Mignard, Samuel; Harle, Virginie; Marchal-George, Nathalie

PATENT ASSIGNEE(S): Institut Francais du Petrole, Fr.

SOURCE: U.S., 8 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 6207870	B1	20010327	US 1999-305480	19990506
US 2002082165	A1	20020627	US 2000-513177	20000225
US 6541417	B2	20030401		

PRIORITY APPLN. INFO.: FR 1998-5 A 19980507
FR 1998-5846 A 19980507
US 1999-305480 A3 19990506

AB The invention provides a **catalyst** including a **support**, at least one noble **metal** from Group VIII of the **periodic table**, silicon as a dopant, optionally boron, optionally at least one Group VIB **element**, optionally phosphorous and optionally at least one halogen. The invention also provides a particular preparation of the **catalyst**. The invention also concerns the use of this **catalyst** in the hydrotreatment of hydrocarbon-containing feeds, more particularly its use for **hydrogenating** aromatic compds. in a gas oil cut.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:116744 CAPLUS

DOCUMENT NUMBER: 130:127314

TITLE: **Catalysts** for selective removal of diolefins, styrene compounds, and mercaptans from unsaturated naphthas

INVENTOR(S): Didillon, Blaise; Uzio, Denis; Cameron, Charles; Gautreau, Christophe

PATENT ASSIGNEE(S): Institut Francais Du Petrole, Fr.

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SOURCE: Fr. Demande, 12 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2764299	A1	19981211	FR 1997-7214	19970609
FR 2764299	B1	19990716		
EP 884373	A1	19981216	EP 1998-401224	19980520
EP 884373	B1	20030319		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2239078	AA	19981209	CA 1998-2239078	19980608
JP 11005986	A2	19990112	JP 1998-160919	19980609
PRIORITY APPLN. INFO.:			FR 1997-7213	A 19970609
			FR 1997-7214	A 19970609

AB Diolefins, styrene-type compds., and mercaptans are removed from pyrolysis naphtha and from catalytic-cracked naphtha in a fixed-bed **hydrogenation**-hydrodesulfurization process over a refractory oxide-supported **catalyst** chosen from at least one noble **metal** of Group VIII (preferably Pd) and at least one **metal** from Group VIB (preferably Mo or W) **elements** of the **Periodic Table**. The **metals** are present at an amount on the **support** of 0.2-5 weight% for the Group VIII **metal** and 0.5-5 weight% for the Group VIB **metal**. **Catalyst supports** are selected from alumina, silica, silica-alumina, and magnesia, preferably alumina with sp. surface area 5-200 m²/g and pore volume 0.4-1 cm³/g. **Hydrogenation**-hydrodesulfurization is typically carried out at 10-200° and 1-20 h-1 space velocity with H₂ present in excess based on stoichiometry. Thus, an Al₂O₃-supported **catalyst** containing 0.3 weight% Pd and 3.0 weight% W showed conversions of styrene, isoprene, and pentanethiol of 99.6, 99.8, and 80%, resp., for processing (at 30 bars, 90°, and 3 h-1 space velocity) of a test feedstock containing 10% styrene, 10% isoprene, and 250 ppm pentanethiol in heptane.

L8 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:116742 CAPLUS

DOCUMENT NUMBER: 130:127313

TITLE: **Catalysts** for selective removal of diolefins and styrene compounds from steam cracking naphthas
INVENTOR(S): Didillon, Blaise; Uzio, Denis; Cameron, Charles; Gautreau, Christophe

PATENT ASSIGNEE(S): Institut Francais Du Petrole, Fr.

SOURCE: Fr. Demande, 12 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2764210	A1	19981211	FR 1997-7213	19970609
FR 2764210	B1	19990716		
EP 884373	A1	19981216	EP 1998-401224	19980520

EP 884373 B1 20030319
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 EP 884102 A1 19981216 EP 1998-401226 19980520
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 CA 2239075 AA 19981209 CA 1998-2239075 19980608
 CA 2239078 AA 19981209 CA 1998-2239078 19980608
 JP 11005986 A2 19990112 JP 1998-160919 19980609
 JP 11010001 A2 19990119 JP 1998-160918 19980609
 US 6686309 B1 20040203 US 1998-93807 19980609
 PRIORITY APPLN. INFO.: FR 1997-7213 A 19970609
 FR 1997-7214 A 19970609

AB Diolefins and styrene-type compds. are removed from naphthas (especially a steam

cracking-derived naphtha) by **hydrogenation** over refractory oxide-supported **catalyst** chosen from at least one noble **metal** of Group VIII and at least one **metal** from Group VIB **elements** of the **Periodic Table**. The **metals** are present at an amount on the **support** of 0.2-5 weight% for the Group VIII **metal** and 0.5-5 weight% for the Group VIB **metal**. Preferred **catalysts** are Pd (for the Group VIII **element**) and Mo and W (for the Group VIB **element**). **Catalyst supports** are selected from alumina, silica, silica-alumina, and magnesia, preferably alumina with sp. surface area 5-200 m²/g and pore volume 0.4-1 cm³/g. **Hydrogenation** is typically carried out at 10-200° and 1-20 h⁻¹ space velocity with H₂ present in excess based on stoichiometry.

L8 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1989:57113 CAPLUS
 DOCUMENT NUMBER: 110:57113
 TITLE: Preparation of amines by catalytic
hydrogenation of amides
 INVENTOR(S): Dobson, Ian David
 PATENT ASSIGNEE(S): BP Chemicals Ltd., UK
 SOURCE: Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 286280	A1	19881012	EP 1988-302628	19880324
EP 286280	B1	19910828		
R: BE, DE, FR, GB, IT, NL				
US 4937384	A	19900626	US 1988-168852	19880316
JP 63255253	A2	19881021	JP 1988-68353	19880324
CN 88101657	A	19881109	CN 1988-101657	19880326

PRIORITY APPLN. INFO.: GB 1987-7305 A 19870326
 OTHER SOURCE(S): MARPAT 110:57113

AB Amines are produced by **hydrogenation** of amides R₁CONR₂R₃ [R₁ = H, (substituted) PhCH₂, aryl, etc.; R₂, R₃ = H, (substituted) aliphatic groups] in the presence as **catalyst** of a composition comprising as a first component (i) a noble **metal** of group VIII of the **Periodic Table** of the **Elements** and (ii) Re, and as a second component either an alumina or a zeolite. A magnetically

stirred autoclave was charged with MeCH₂CONH₂, dioxane, zeolite 4A, and 2.5% Pd and 5% Re on high surface area graphite **support** and was then pressurized with H₂ (2000 psig). The reaction was allowed to proceed at 200° for 6 h to give a mixture of PrNH₂, Pr₂NH, and Pr₃N with 96% conversion of amides to products and 74.4% selectivity to amines.

L8 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1988:454124 CAPLUS

DOCUMENT NUMBER: 109:54124

TITLE: Methanol and methane formation over **palladium** dispersed on the lanthanide rare earth oxides

AUTHOR(S): Vannice, M. Albert; Sudhakar, Chakka; Freeman, Mark

CORPORATE SOURCE: Dep. Chem. Eng., Pennsylvania State Univ., University Park, PA, 16802, USA

SOURCE: Journal of Catalysis (1987), 108(1), 97-111

CODEN: JCTLA5; ISSN: 0021-9517

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The effect of the rare earth oxide (REO) **support** on the CO **hydrogenation** reaction over Pd was studied by dispersing this **metal** on the oxides of the late lanthanide **elements** (Tb through Lu). The Pd surface area was measured before and after kinetic runs at 0.1 MPa (1 atm) and 1.5 MPa with these Pd/REO **catalysts**. Methanation activation energies were 30.4 ± 1.1 kcal mol⁻¹. The turnover frequency (TOF) at 548 K for methane ranged from $1.2-4.8 \times 10^{-3}$ s⁻¹, which is up to 40 times that on Pd powder. At 1.5 MPa and 523 K, stable activity was achieved after 48 h on stream and all **catalysts** showed a selectivity of 83-90% to oxygenates (excluding CO₂), with over 90% of this fraction composed of CH₃OH. The average activation energy for methanol synthesis was 19.6 ± 0.8 kcal mol⁻¹, and TOFs varied from $1.6-6.1 \times 10^{-3}$ s⁻¹. When these results are combined with those of the previous study of C. Sudhakar and M. A. Vannice (1985), the patterns for methanation at 0.1 MPa and CH₃OH synthesis at 1.5 MPa are established as a function of the position of the REO in the **periodic table**. There is a clear influence of the **support** on catalytic properties: a correlation exists between the CH₄ TOF and the activation energy for elec. conductivity, and the TOF for CH₃OH synthesis shows a strong correlation with the basicity of the REO, which varies with the lanthanide contraction. The possibility of a heterogeneous analog of the Cannizzaro reaction is pointed out, and this route may also influence methanol formation.

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

45.43

45.64

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-6.75

-6.75

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